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MVRT 280 METALLIC VOLUMETRIC FOR RADIANT TUBE

MVRT 280			
Maximum output [kW]		280	
Minimum Power (air/gas modulating) [kW]		28	
Fuel pressure at maximum power [mbar] (measured at tapping $P_{1,F}$ – pag. 2)	Natural gas (8250 kcal/Nm³)	65	
	LPG (22500 kcal/Nm ³)		
Air inlet pressure at maximum power [mbar] (measured at tapping P_{1A} – pag. 2)	Natural gas (8250 kcal/Nm³)	25	
	LPG (22500 kcal/Nm ³)	25	
Flame length at maximum power [mm] (measured from the end of the burner body)	Natural gas (8250 kcal/Nm³)	700	
	LPG (22500 kcal/Nm ³)		
Flame speed at maximum power [m/s] (with 20% excess of air)	Medium speed	70	
Flame detection	Ionization probe or UV cell		
Fuel	Natural gas, LPG		

All information is based on laboratory tests in a neutral pressure chamber. Different conditions and chamber sizes can affect the data.

All information is based on a standard combustor design. Modifications to the combustor will alter performance and pressures.

All data are based on gross calorific values.

All the information is based on tests undertaken using air and gas piping of generally acceptable design. Any deviation will affect the accuracy of orifice readings.

The information reported on this document may be subject to change without notice.

The data listed on this paper are purely for informational purposes and not binding.

ECOFLAM reserves the right to change the construction and/or configuration of its products in every moment without being obligated to alter previous supplies.



CHARACTERISTICS OF THE BURNER

Fuel 1: natural gas Fuel 1 orifice: Ø12

Fuel 2: LPG Fuel 2 orifice: Ø12

Comburent: air Comburent orifice: Ø100

Stainless steel cone exit: Ø88





OPERATING RANGE

TYPICAL OPERATING RANGE



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LEGENDA

Q_F Fuel flow**Q**_A Air flow

 $\mathbf{P}_{1,F}$ Fuel pressure before the diaphragm

 ${\bm P}_{1.A}~$ Air pressure before the diaphragm ${\bm P}_{2.F}~$ Fuel pressure after the diaphragm

FLOW RATE CURVES

	FUEL				
Q _F [Nm ³ /h]	P _{1.F} [mbar]		ΔP _F [mbar]		
	Natural gas	LPG	Natural gas	LPG	
1	0.00		0.00		
2	0.00		0.00		
4	1.21		0.52		
5	1.89		0.81		
6	2.72		1.16		
8	4.84		2.06		
8	4.84		2.06		
9	6.13		2.61		
10	7.56		3.22		
12	10.89		4.64		
15	17.02		7.25		
16	19.36		8.25		
16	19.36		8.25		
18	24.50		10.44		
19	27.30		11.63		
20	30.25		12.88		
22	36.61		15.59		
24	43.56		18.55		
25	47.27		20.13		
26	51.13		21.78		
27	55.13		23.48		
28	59.29		25.25		
29	63.61		27.09		
30	68.07		28.99		

$\mathbf{P}_{2,A}$ All pressure after the ulaphragin	$P_{2,A}$	Air pressure after the diaphragm
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 $\Delta P_{\scriptscriptstyle F}$ $\,$ Differential fuel pressure between tapping 1 and 2 $\,$

 ΔP_{A} Differential air pressure between tapping 1 and 2

	AIR	
0 [Nm ³ /b]	P _{1.A}	ΔΡΑ
Q _A [Nm³/n]	[mbar]	[mbar]
40	0.32	0.11
50	0.51	0.17
60	0.73	0.25
80	1.30	0.45
100	2.03	0.70
120	2.92	1.01
140	3.98	1.37
150	4.57	1.57
160	5.20	1.79
180	6.58	2.26
200	8.12	2.79
220	9.83	3.38
240	11.70	4.02
250	12.69	4.37
260	13.73	4.72
270	14.80	5.09
280	15.92	5.48
290	17.08	5.88
300	18.27	6.29
310	19.51	6.71
320	20.79	7.15
330	22.11	7.61
340	23.47	8.08
350	24.87	8.56





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DIMENSIONS [mm]







